

CLAIMS

Original Claims 1 through 11 (CANCELLED).

12. The method of manufacturing a reinforced liquid elastomer tire which holds the reinforcing cords, wires and cables in the plies, belts and beads in position within a tire molding cavity while liquid elastomer is poured or injected around them and subsequently solidifies. (NEW)
13. The method of manufacturing a liquid elastomer tire with individual reinforcing components including plies, belts and beads composed of individual cords, wires and cables which are coated with a liquid elastomer using a series of component forming molds and the elastomer solidifies enough to hold the reinforcement cords and wires and cables in place during assembly of all reinforcing components and the subsequent surrounding of the reinforcing component assembly with additional liquid elastomer within a tire molding cavity until all of the liquid elastomer is completely solidified. (NEW)
14. The method of manufacturing a reinforced liquid elastomer tire where individual cords, wires and cables are guided and precisely held in place along the desired cord path within a tire molding cavity by rotating organizing dies and subsequently liquid elastomer is poured or injected around these cords and solidified in one operation or in stages. (NEW)
15. The liquid elastomer tire reinforced with at least plies, belts, and beads composed of individual textile cords, metallic wires and cables manufactured with the method of Claim 12 so that each reinforcing cord, wire and cable is surrounded with solidified

liquid elastomer and precisely positioned and the completed tire has the shape of the tire molding cavity. (NEW)

16. The liquid elastomer tire reinforced with at least plies, belts and beads composed of individual textile cords, metallic wires and cables manufactured with the method of Claim 13 so that each reinforcing cord, wire and cable is surrounded with solidified liquid elastomer and precisely positioned and the completed tire has the shape of the tire molding cavity. (NEW)
17. The reinforced liquid elastomer tire manufactured with the method of Claim 14 where the ply and belt reinforcements are made from the same continuous cords, wires or cables which have a cord path which is approximately radial in the sidewall area and bias angled in the crown area under the tread. (NEW)
18. The reinforced liquid elastomer tire manufactured with the method of Claim 14 where the ply and belt reinforcements are made from the same continuous cords, wires or cables which can have any desired cord path from bead to bead including continuously varying cord angles to optimize tire performance. (NEW)
19. The liquid elastomer tire reinforced with plies and belts composed of individual textile cords, metallic wires and cables, but without wire beads for rim attachment manufactured with the method of Claim 12 so that each reinforcing cord, wire and cable is surrounded with solidified liquid elastomer and precisely positioned and the completed tire has the shape of the molding cavity. (NEW)
20. The liquid elastomer tire reinforced with plies and belts composed of individual textile cords, metallic wires and cables but without wire beads for rim attachment manufactured with the method of Claim 13 so that each reinforcing cord, wire and

cable is surrounded with solidified liquid elastomer and precisely positioned and the completed tire has the shape of the molding cavity. (NEW)

21. The liquid elastomer tire reinforced with plies and belts composed of individual textile cords, metallic wires and cables, but without wire beads for rim attachment manufactured with the method of Claim 14 so that each reinforcing cord, wire and cable is surrounded with solidified liquid elastomer and precisely positioned and the completed tire has the shape of the molding cavity. (NEW)
22. The apparatus used in the method of Claim 13 to manufacture a tire which includes a series of liquid elastomer encapsulation molds: one for plies, one for belts, and one for bead – apexes to hold individual cords, wires or cables in position while liquid elastomer surrounds the cords and upon at least partial solidification forms each of the reinforcing components prior to their assembly. The apparatus also includes equipment to assemble the partially solidified reinforcing components and equipment to surround the reinforcing component assembly with liquid elastomer inside a tire mold. (NEW)
23. The apparatus used in the method of Claim 14 to manufacture a tire which includes: an individual creel let off for each ply – belt cord, wire or cable, a liquid elastomer coating die for each cord, a counter-rotating circular organizing die to position cords, bead winding and application apparatus, a torroidal mandrill with the profile of the inside of the finished tire, a multiple piece mold with the shape of the outside of the finished tire and a liquid elastomer mixing and pouring or injecting apparatus. (NEW)
24. The article of Claim 15 where the liquid elastomer is polyurethane. (NEW)

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- 25. The article of Claim 16 where the liquid elastomer is polyurethane. (NEW)
- 26. The article of Claim 17 where the liquid elastomer is polyurethane. (NEW)
- 27. The article of Claim 18 where the liquid elastomer is polyurethane. (NEW)
- 28. The article of Claim 19 where the liquid elastomer is polyurethane. (NEW)
- 29. The article of Claim 20 where the liquid elastomer is polyurethane. (NEW)
- 30. The article of Claim 21 where the liquid elastomer is polyurethane (NEW)